

09/856470

2018 Rec'd PCT/PTO 07 JUN 2001

**IN THE UNITED STATES RECEIVING OFFICE**  
**INTERNATIONAL PRELIMINARY EXAMINATION AUTHORITY**

**HAND CARRY**  
**ATTN: RO/US**

In re the application of: UNIVERSITY OF MARYLAND, COLLEGE PARK, et al.

International Application No: PCT/US99/27919

International Filing Date: 08 December 1999

For: Genetic Markers Which Identify Individuals Who Improve Their Cholesterol Levels and Diabetes Status With Exercise

**RESPONSE TO INVITATION TO CORRECT DEFECTS IN THE DEMAND**

Commissioner for Patents  
Box PCT  
Washington, D.C. 20231

September 7, 2000

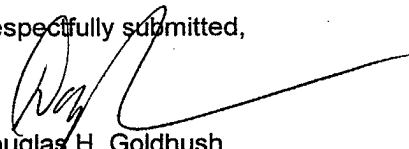
Dear Sir:

This paper is respectfully submitted in response to the Invitation to Correct Defects in the Demand, which is dated August 7, 2000.

In response to Box 4 of the Invitation to Correct Defects, attached is a copy of a Request for Change under PCT Rule 92<sup>bis</sup>, which has been forwarded to the International Bureau of WIPO. The agent's change of address as it appears on the attached request represents the agent's current address.

It is believed that all defects noted in the Invitation to Correct Defects in the Demand have been cured. In the event any fees are required, please charge counsel's deposit account no. 01-2300.

Respectfully submitted,

  
Douglas H. Goldhush  
Appointed Agent

Docket No. 108172-09032  
Arent Fox Kintner Plotkin & Kahn, PLLC  
1050 Connecticut Avenue, NW  
Suite 600  
Washington, D.C. 20036-5339  
United States of America  
202/857-6000

DHG/arw  
Enclosure

09/856470

JC18 Rec'd PCT/PTO 07 JUN 2001

IN THE INTERNATIONAL BUREAU OF WIPO

In re the application of: UNIVERSITY OF MARYLAND, COLLEGE PARK, et al.

International Application No: PCT/US99/27919

International Filing Date: 08 December 1999

For: Genetic Markers Which Identify Individuals Who Improve Their Cholesterol Levels and Diabetes Status With Exercise

REQUEST FOR CHANGE UNDER PCT RULE 92<sup>bis</sup>

The International Bureau of WIPO  
PCT Receiving Office Section  
34, chemin des Colombettes  
1211 Geneva 20, Switzerland

07 September 2000

Dear Sir:

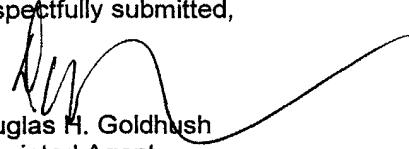
Applicants respectfully request that the agents address and telephone number in the above application be changed as indicated below and placed on record with the International Bureau of WIPO in accordance with PCT Rule 92bis:

Arent Fox Kintner Plotkin & Kahn, PLLC  
1050 Connecticut Avenue, NW, Suite 600  
Washington, D.C. 20036-5339 US

Telephone No. (202) 857-6000

It is respectfully requested that the International Bureau of WIPO acknowledge receipt of this request for change to the international application by issuance of form PCT/IB/306.

Respectfully submitted,

  
Douglas H. Goldhush  
Appointed Agent

Arent Fox Kintner Plotkin & Kahn, PLLC  
1050 Connecticut Avenue, NW, Suite 600  
Washington, D.C. 20036-5339 US  
Agent's File Reference No: 108172-09032

09/856470  
JC18 Rec'd PCT/PTO 07 JUN 2001

Patent ☒ Trademark ☐ Docket No. 108172-09032  
Serial No. PCT/US99/27919 Filed December 8, 1999  
Applicant(s) University of Maryland, College Park  
Papers filed herewith on September 7, 2000  

<input type="checkbox"/> Fees \$ _____	<input type="checkbox"/> Assignment
<input type="checkbox"/> New Application	<input type="checkbox"/> Declaration
<input type="checkbox"/> Amendment	<input type="checkbox"/> Priority Document
<input type="checkbox"/> Notice of Appeal	<input type="checkbox"/> Req. for Ext. of Time
<input type="checkbox"/> IDS/PTO-1449	<input type="checkbox"/> Drawings
<input checked="" type="checkbox"/> Other <u>Response to Invitation to Correct Defects</u>	

In the Demand (1); Request for Change Under Rule 92<sup>b.5</sup>

Receipt is hereby acknowledged of the papers filed as indicated in connection with the above-identified case.

COMMISSIONER OF PATENTS

DH:lgw

09/856470

IN THE UNITED STATES RECEIVING OFFICE PCT/PTO 07 JUN 2001

HAND CARRY TO PCT  
Attn: RO/US

In re the application of: University of Maryland, College Park, et al.

International Application Number: PCT/US99/26019

Filed: December 8, 1999

For: GENETIC MARKERS WHICH IDENTIFY INDIVIDUALS WHO IMPROVE  
THEIR CHOLESTEROL LEVELS AND DIABETES STATUS WITH EXERCISE

**RESPONSE TO INVITATION TO CORRECT DEFECTS**

Assistant Commissioner for Patents  
Washington, D.C. 20231  
Attn: Box PCT

March 29, 2000

Dear Sir:

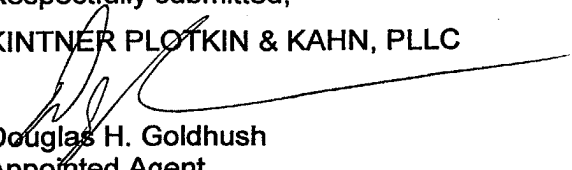
This is applicants' response to the Invitation to Correct Defects dated February 10, 2000 in which a one month extension of time for response to the invitation was requested.

In response to Annex A of the Invitation to Correct Defects, attached are PCT Power of Attorney documents duly executed by the applicants, for inclusion in the subject PCT International Application.

In view of the above, it is believed that all defects noted in the Invitation to Correct Defects dated February 10, 2000 have been cured. In the event any fees are required, please charge our Deposit Account No. 01-2300.

Respectfully submitted,

ARENT FOX KINTNER PLOTKIN & KAHN, PLLC

  
Douglas H. Goldhush  
Appointed Agent  
U.S. Reg. No. 33,125

DHG/arw

Enclosures: PCT Power of Attorney Documents (6)  
Agent's Docket No. F108172-09032

The demand must be filed directly with the competent International Preliminary Examining Authority, or, if two or more Authorities are competent, with the one chosen by the applicant. The full name or two-letter code of that Authority may be indicated by the applicant on the line below:

IPEA/ US

# PCT

## CHAPTER II

### DEMAND

under Article 31 of the Patent Cooperation Treaty:  
The undersigned requests that the international application specified below be the subject of international preliminary examination according to the Patent Cooperation Treaty and hereby elects all eligible States (except where otherwise indicated).

For International Preliminary Examining Authority use only

Identification of IPEA		Date of receipt of DEMAND	
<b>Box No. I IDENTIFICATION OF THE INTERNATIONAL APPLICATION</b>		Applicant's or agent's file reference 108172-09032	
International application No. PCT/US99/27919	International filing date (day/month/year) 08 December 1999 ( 08/12/99 )	(Earliest) Priority date (day/month/year) 08 December 1998 ( 08/12/98 )	
Title of invention GENETIC MARKERS WHICH IDENTIFY INDIVIDUALS WHO IMPROVE THEIR CHOLESTEROL LEVELS AND DIABETES STATUS WITH EXERCISE			
<b>Box No. II APPLICANT(S)</b>			
Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country.) UNIVERSITY OF MARYLAND, COLLEGE PARK Office of Technology Liaison 4312 Knox Road College Park, Maryland 20742 United States of America		Telephone No.: (301) 405-4209	
		Facsimile No.: (301) 314-9871	
		Teleprinter No.:	
State (that is, country) of nationality: US		State (that is, country) of residence: US	
Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country.) UNIVERSITY OF MARYLAND, BALTIMORE Office of Research & Development 515 West Lombard Street Baltimore, Maryland 21201 United States of America			
State (that is, country) of nationality: US		State (that is, country) of residence: US	
Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country.) UNIVERSITY OF PITTSBURGH Office of Technology Management Rm 9110 William Pitt Union Pittsburgh, Pennsylvania 15260 United States of America			
State (that is, country) of nationality: US		State (that is, country) of residence: US	
<input checked="" type="checkbox"/> Further applicants are indicated on a continuation sheet.			

## Continuation of Box No. II APPLICANT(S)

*If none of the following sub-boxes is used, this sheet is not to be included in the demand.*

Name and address: *(Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country.)*

HAGBERG, James M.  
10941 Hilltop Lane  
Columbia, Maryland 21044  
United States of America

State *(that is, country)* of nationality:  
US

State *(that is, country)* of residence:  
US

Name and address: *(Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country.)*

FERRELL, Robert E.  
206 Maple Avenue  
Pittsburgh, Pennsylvania 15218  
United States of America

State *(that is, country)* of nationality:  
US

State *(that is, country)* of residence:  
US

Name and address: *(Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country.)*

SHULDINER, Alan  
10600 Harpoon Hill  
Columbia, Maryland 21044  
United States of America

State *(that is, country)* of nationality:  
US

State *(that is, country)* of residence:  
US

Name and address: *(Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country.)*

State *(that is, country)* of nationality:

State *(that is, country)* of residence:

☐

Further applicants are indicated on another continuation sheet.

**Box No. III AGENT OR COMMON REPRESENTATIVE; OR ADDRESS FOR CORRESPONDENCE**

The following person is ☒ agent ☐ common representative  
 and ☒ has been appointed earlier and represents the applicant(s) also for international preliminary examination.  
☐ is hereby appointed and any earlier appointment of (an) agent(s) /common representative is hereby revoked.  
☐ is hereby appointed, specifically for the procedure before the International Preliminary Examining Authority, in addition to the agent(s)/common representative appointed earlier.

Name and address: *(Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country.)*

GOLDHUSH, Douglas H.  
 Arent Fox Kintner Plotkin & Kahn, PLLC  
 1050 Connecticut Avenue, NW  
 Suite 600  
 Washington, DC 20036-5339  
 US

Telephone No.:

(202) 857-6000

Facsimile No.:

(202) 638-4810

Teleprinter No.:

☐ Address for correspondence: Mark this check-box where no agent or common representative is/has been appointed and the space above is used instead to indicate a special address to which correspondence should be sent.

**Box No. IV BASIS FOR INTERNATIONAL PRELIMINARY EXAMINATION****Statement concerning amendments:\***

1. The applicant wishes the international preliminary examination to start on the basis of:

☒ the international application as originally filed

the description ☐ as originally filed  
☐ as amended under Article 34

the claims ☐ as originally filed  
☐ as amended under Article 19 (together with any accompanying statement)  
☐ as amended under Article 34

the drawings ☐ as originally filed  
☐ as amended under Article 34

2. ☐ The applicant wishes any amendment to the claims under Article 19 to be considered as reversed.

3. ☐ The applicant wishes the start of the international preliminary examination to be postponed until the expiration of 20 months from the priority date unless the International Preliminary Examining Authority receives a copy of any amendments made under Article 19 or a notice from the applicant that he does not wish to make such amendments (Rule 69.1(d)). *(This check-box may be marked only where the time limit under Article 19 has not yet expired.)*

\* Where no check-box is marked, international preliminary examination will start on the basis of the international application as originally filed or, where a copy of amendments to the claims under Article 19 and/or amendments of the international application under Article 34 are received by the International Preliminary Examining Authority before it has begun to draw up a written opinion or the international preliminary examination report, as so amended.

**Language for the purposes of international preliminary examination: English**

- ☒ which is the language in which the international application was filed.  
☐ which is the language of a translation furnished for the purposes of international search.  
☐ which is the language of publication of the international application.  
☐ which is the language of the translation (to be) furnished for the purposes of international preliminary examination.

**Box No. V ELECTION OF STATES**

The applicant hereby elects all eligible States *(that is, all States which have been designated and which are bound by Chapter II of the PCT)*

excluding the following States which the applicant wishes not to elect:

**Box No. VI CHECK LIST**

The demand is accompanied by the following elements, in the language referred to in Box No. IV, for the purposes of international preliminary examination:

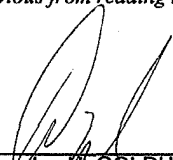
			For International Preliminary Examining Authority use only	
			received	not received
1.	translation of international application	sheets	<input type="checkbox"/>	<input type="checkbox"/>
2.	amendments under Article 34	sheets	<input type="checkbox"/>	<input type="checkbox"/>
3.	copy (or, where required, translation) of amendments under Article 19	sheets	<input type="checkbox"/>	<input type="checkbox"/>
4.	copy (or, where required, translation) of statement under Article 19	sheets	<input type="checkbox"/>	<input type="checkbox"/>
5.	letter	1 sheets	<input type="checkbox"/>	<input type="checkbox"/>
6.	other (specify)	sheets	<input type="checkbox"/>	<input type="checkbox"/>

The demand is also accompanied by the item(s) marked below:

- |  |   |
|--|---|
| 1. <input checked="" type="checkbox"/> fee calculation sheet                             | 4. <input type="checkbox"/> statement explaining lack of signature                                  |
| 2. <input type="checkbox"/> separate signed power of attorney                            | 5. <input type="checkbox"/> nucleotide and or amino acid sequence listing in computer readable form |
| 3. <input type="checkbox"/> copy of general power of attorney; reference number, if any: | 6. <input type="checkbox"/> other (specify):  |

**Box No. VII SIGNATURE OF APPLICANT, AGENT OR COMMON REPRESENTATIVE**

Next to each signature, indicate the name of the person signing and the capacity in which the person signs (if such capacity is not obvious from reading the demand).

  
 Douglas H. GOLDHUSH  
 Appointed Agent

For International Preliminary Examining Authority use only

1. Date of actual receipt of DEMAND:

2. Adjusted date of receipt of demand due to CORRECTIONS under Rule 60.1(b):

3. ☐ The date of receipt of the demand is AFTER the expiration of 19 months from the priority date and item 4 or 5, below, does not apply. ☐ The applicant has been informed accordingly.

4. ☐ The date of receipt of the demand is WITHIN the period of 19 months from the priority date as extended by virtue of Rule 80.5.

5. ☐ Although the date of receipt of the demand is after the expiration of 19 months from the priority date, the delay in arrival is EXCUSED pursuant to Rule 82.

For International Bureau use only

Demand received from IPEA on:



## PCT

## FEE CALCULATION SHEET

Annex to the Demand for international preliminary examination

International application No. <b>PCT/US99/27919</b>	For International Preliminary Examining Authority use only
Applicant's or agent's file reference <b>108172-09032</b>	Date stamp of the IPEA
Applicant <b>UNIVERSITY OF MARYLAND, COLLEGE PARK, et al.</b>	
<b>Calculation of prescribed fees</b>	
1. Preliminary examination fee .....	<b>490.00</b> <span style="border: 1px solid black; padding: 0 5px;">P</span>
2. Handling fee <i>(Applicants from certain States are entitled to a reduction of 75% of the handling fee. Where the applicant is (or all applicants are) so entitled, the amount to be entered at H is 25% of the handling fee.)</i> .....	<b>153.00</b> <span style="border: 1px solid black; padding: 0 5px;">H</span>
3. Total of prescribed fees Add the amounts entered at P and H and enter total in the TOTAL box .....	<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;"> <b>643.00</b> </div> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;"> <b>TOTAL</b> </div>
<b>Mode of Payment</b>	
<input type="checkbox"/> authorization to charge deposit account with the IPEA (see below)	<input type="checkbox"/> cash
<input checked="" type="checkbox"/> cheque	<input type="checkbox"/> revenue stamps
<input type="checkbox"/> postal money order	<input type="checkbox"/> coupons
<input type="checkbox"/> bank draft	<input type="checkbox"/> other (specify):
<b>Deposit Account Authorization</b> <i>(this mode of payment may not be available at all IPEAs)</i>	
The IPEA/ <u>Us</u> <input type="checkbox"/> is hereby authorized to charge the total fees indicated above to my deposit account.	
<input checked="" type="checkbox"/> <i>(this check-box may be marked only if the conditions for deposit accounts of the IPEA so permit)</i> is hereby authorized to charge any deficiency or credit any overpayment in the total fees indicated above to my deposit account.	
<b>01-2300</b>	<b>07 July 2000 (07/07/2000)</b>
Deposit Account Number	Date (day/month/year)
Signature	

09/856470  
JC18 Rec'd PCT/PTO 07 JUN 2001

**IN THE INTERNATIONAL BUREAU OF WIPO**

In re application of: University of Maryland, College Park, et al.

International Application Number: PCT/US99/27919

Filed: 08 December 1999

For: Genetic Markers Which Identify Individuals Who Improve Their Cholesterol Levels and Diabetes Status With Exercise

**RESPONSE TO INVITATION TO CORRECT PRIORITY CLAIM**

International Bureau of WIPO  
34, chemin des Colombettes  
1211 Geneva 20, Switzerland

05 April 2000

Sir:

In response to the Invitation To Correct Priority Claim dated 31 March 2000, the applicants respectfully request that the following change be made to the filing date of United States Provisional Application No. 60/112,604 as shown in Box No. IV of the PCT Request form of the subject International application:

Filing date of earlier application	Number of earlier application	National application: country
17 December 1998 (17.12.98)	60/112,604	US

In view of the above, it is believed that all defects noted in the Invitation to Correct Priority Claim have been cured. In the event additional information is needed in response to this invitation, please contact the undersigned before the expiration of

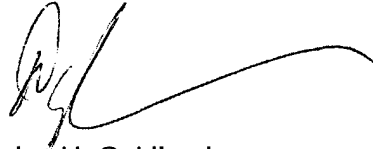
09/856470

2

JC10 Rec'd PCT/PTO 07 JUN 2001

the time limit to respond to this invitation.

Respectfully submitted,  
ARENT FOX KINTNER PLOTKIN & KAHN, PLLC



Douglas H. Goldhush  
U.S. Registration No. 33,125

DHG/arw  
Agent Docket No. F108172-09032  
ARENT FOX KINTNER PLOTKIN & KAHN, PLLC  
1050 Connecticut Avenue, NW  
Suite 600  
Washington, DC 20036-5339  
202/857-6000

**IN THE UNITED STATES RECEIVING OFFICE**

**HAND CARRY TO PCT  
Attn: RO/US**

In re the application of: University of Maryland, College Park, et al.

International Application Number: PCT/US99/27919

Filed: December 8, 1999

For: GENETIC MARKERS WHICH IDENTIFY INDIVIDUALS WHO IMPROVE  
THEIR CHOLESTEROL LEVELS AND DIABETES STATUS WITH EXERCISE

**RESPONSE TO INVITATION TO CORRECT DEFECTS**

Commissioner for Patents  
Washington, D.C. 20231  
Attn: Box PCT

April 10, 2000

Dear Sir:

This is applicants' response to the Invitation to Correct Defects dated February 10, 2000 in which a one month extension of time for response to the invitation was requested.

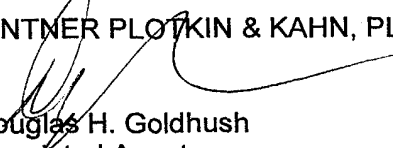
In response to Annex A of the Invitation to Correct Defects, attached are PCT Power of Attorney documents duly executed by the applicants, for inclusion in the subject PCT International Application.

Please note that papers were filed on March 29, 2000 in response to this invitation; however, upon post-filing review, applicants noticed that an incorrect international application number appeared on the papers. The papers that were filed on March 29, 2000 were inadvertently marked as **PCT/US99/26019**. Applicants hereby resubmit the response with the appropriate application number hereon. It is respectfully requested that the papers filed on March 29, 2000 be disregarded.

In view of the above, it is believed that all defects noted in the Invitation to Correct Defects dated February 10, 2000 have been cured. In the event any

fees are required, please charge our Deposit Account No. 01-2300.

Respectfully submitted,  
ARENT FOX KINTNER PLOTKIN & KAHN, PLLC



Douglas H. Goldhush  
Appointed Agent  
U.S. Reg. No. 33,125

DHG/arw

Enclosures: PCT Power of Attorney Documents (6)  
Agent's Docket No. F108172-09032

# PCT

## POWER OF ATTORNEY

(for an international application filed under the Patent Cooperation Treaty)

(PCT Rule 90.4)

The undersigned applicant(s) (Names should be indicated as they appear in the request):

UNIVERSITY OF MARYLAND, COLLEGE PARK  
UNIVERSITY OF MARYLAND, BALTIMORE  
UNIVERSITY OF PITTSBURGH  
HAGBERG, James M.  
FERRELL, Robert E.  
SHULDINER, Alan

hereby appoints (appoint) the following person as:



agent



common representative

### Name and address

(Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country.)

GOLDHUSH, Douglas H., U.S. Reg. No. 33,125; NIKAIDO, David T., U.S. Reg. No. 22,663; MARMELSTEIN, Charles M., U.S. Reg. No. 25,895; MURRAY, Robert B., U.S. Reg. No. 22,980; ORAM, George E., Jr., U.S. Reg. No. 27,931; EMAS, E. Marcie, U.S. Reg. No. 32,131; KITTS, Monica Chin, U.S. Reg. No. 36,105; BERMAN, Richard J., U.S. Reg. No. 39,107; WONG, King L., U.S. Reg. No. 37,500; MUIR, Patrick D., U.S. Reg. No. 37,403; ROSE, Herbert C., U.S. Reg. No. KLESNER, Sharon N., U.S. Reg. No. 36,335 all of Arent Fox Kintner Plotkin & Kahn, 1050 Connecticut Avenue, Suite 600, Washington, D.C. 20036-5339 United States of America

to represent the undersigned before



all the competent International Authorities



the International Searching Authority only



the International Preliminary Examining Authority only

in connection with the international application identified below:

Title of the invention: GENETIC MARKERS WHICH IDENTIFY INDIVIDUALS WHO IMPROVE THEIR  
CHOLESTEROL LEVELS AND DIABETES STATUS WITH EXERCISE

Applicant's or agent's file reference: F8172-9032

International application number (if already available):

filed with the following Office RO/US as receiving Office  
and to make or receive payments on behalf of the undersigned.

Signature of the applicant(s) (where there are several applicants, each of them must sign; next to each signature, indicate the name of the person signing and the capacity in which the person signs, if such capacity is not obvious from reading the request or this power):

UNIVERSITY OF MARYLAND, COLLEGE PARK

By:

*James M. Hagberg*  
Title of Signatory:  
Acting Executive Director

UNIVERSITY OF OF PITTSBURGH

By:

Title of Signatory:

UNIVERSITY OF MARYLAND, BALTIMORE

By:

Title of Signatory:

James M. HAGBERG

Robert E. FERRELL

Alan SHULDINER

Date: \_\_\_\_\_

**PCT  
POWER OF ATTORNEY**

*(for several international applications filed under the Patent Cooperation Treaty)*

(PCT Rule 90.4)

The undersigned applicant(s) *(Names should be indicated as they appear in the request)*

**UNIVERSITY OF MARYLAND, COLLEGE PARK  
UNIVERSITY OF MARYLAND, BALTIMORE  
UNIVERSITY OF PITTSBURGH  
SHULDINER, Alan  
FERRELL, Robert E  
HAGBERG, James M.**

hereby appoints (appoint) the following person as: ☒ agent      ☐ common representative

**Name and address**

*(Family name followed by given name, for a legal entity, full official designation. The address must include postal code and name of country.)*

**GOLDHUSH, Douglas H., U.S. Reg. No. 33,125; NIKAIDO, David T., U.S. Reg. No. 22,663, MARMELSTEIN, Charles M., U.S. Reg. No. 25,895; MURRAY, Robert B., U.S. Reg. No. 22,980; ORAM, George E., Jr., U.S. Reg. No. 27,931; EMAS, E. Marcie, U.S. Reg. No. 32,131; KITTS, Monica Chin, U.S. Reg. No. 38,105; BERMAN, Richard J., U.S. Reg. No. 39,107; WONG, King L., U.S. Reg. No. 37,500; MUIR, Patrick D., U.S. Reg. No. 37,403; ROSE, Herbert C., U.S. Reg. No. ; KLESNER, Sharon N., U.S. Reg. No. 36,335 all of Arent Fox Kintner Plotkin & Khan, 1050 Connecticut Avenue, Suite 400, Washington, D.C. 20036-5339, United States of America**

to represent the undersigned before ☒ all the competent International Authorities  
☐ the International Searching Authority only  
☐ the International Preliminary Examining Authority only

in connection with the international application identified below:

Title of the invention: **Genetic Markers Which Identify Individuals Who Improve Their Cholesterol Levels and Diabetes Status With Exercise**

Applicant's or agent's file reference: **F8172-9032**

International application number (if already available):

filed with the following Office: RO/US as receiving Office  
and to make or receive payments on behalf of the undersigned.

Signature of the applicant(s): *(where there are several applicants, each of them must sign; next to each signature, indicate the name of the person signing and the capacity in which the person signs. If such capacity is not obvious from reading the request or this power):*

**David J. Ramsay, DM, D.Phil.  
President  
University of Maryland, Baltimore**

Date: 2.24.00

PCT

POWER OF ATTORNEY

(for an international application filed under the Patent Cooperation Treaty)

(PCT Rule 90.4)

The undersigned applicant(s) (Names should be indicated as they appear in the request):

UNIVERSITY OF MARYLAND, COLLEGE PARK  
UNIVERSITY OF MARYLAND, BALTIMORE  
UNIVERSITY OF PITTSBURGH  
HAGBERG, James M.  
FERRELL, Robert E.  
SHULDINER, Alan

RECEIVED MAR 22 2000

hereby appoints (appoint) the following person as:

☒ agent

☐ common representative

Name and address

(Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country.)

GOLDHUSH, Douglas H., U.S. Reg. No. 33,125; NIKAIKO, David T., U.S. Reg. No. 22,663; MARMELESTEIN, Charles M., U.S. Reg. No. 25,895; MURRAY, Robert B., U.S. Reg. No. 22,980; ORAM, George E., Jr., U.S. Reg. No. 27,931; EMAS, E. Marcie, U.S. Reg. No. 32,131; KITTS, Monica Chin, U.S. Reg. No. 38,105; BERMAN, Richard J., U.S. Reg. No. 39,107; WONG, King L., U.S. Reg. No. 37,500; MUIR, Patrick D., U.S. Reg. No. 37,403; ROSE, Herbert C., U.S. Reg. No. KLESNER, Sharon N., U.S. Reg. No. 36,335 all of Arent Fox Kintner Plotkin & Kahn, 1050 Connecticut Avenue, Suite 800, Washington, D.C. 20036-5339 United States of America

to represent the undersigned before

☒ all the competent International Authorities

☐ the International Searching Authority only

☐ the International Preliminary Examining Authority only

in connection with the international application identified below:

Title of the invention: GENETIC MARKERS WHICH IDENTIFY INDIVIDUALS WHO IMPROVE THEIR  
CHOLESTEROL LEVELS AND DIABETES STATUS WITH EXERCISE

Applicant's or agent's file reference: F8172-9032

International application number (if already available):

filed with the following Office BO/US as receiving Office  
and to make or receive payments on behalf of the undersigned.

Signature of the applicant(s) (where there are several applicants, each of them must sign; next to each signature, indicate the name of the person signing and the capacity in which the person signs, if such capacity is not obvious from reading the request or this power):

UNIVERSITY OF MARYLAND, COLLEGE PARK  
By:  
Title of Signatory:

UNIVERSITY OF OF PITTSBURGH  
By: *James M. Hagberg*  
Title of Signatory:

*Exec Vice Chancellor*

UNIVERSITY OF MARYLAND, BALTIMORE  
By:  
Title of Signatory:

James M. HAGBERG  
Robert E. FERRELL  
Alan SHULDINER

TOTAL P. 02



PCT

**POWER OF ATTORNEY**

*(for an international application filed under the Patent Cooperation Treaty)*

(PCT Rule 90.4)

The undersigned applicant(s) *(Names should be indicated as they appear in the request):*

UNIVERSITY OF MARYLAND, COLLEGE PARK  
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HAGBERG, James M.  
FERRELL, Robert E.  
SHULDINER, Alan

hereby appoints (appoint) the following person as:



agent



common representative

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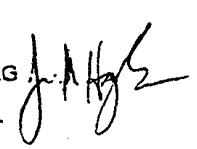
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UNIVERSITY OF MARYLAND, BALTIMORE  
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Alan SHULDINER



PCT

POWER OF ATTORNEY

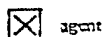
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UNIVERSITY OF MARYLAND, COLLEGE PARK

By:  
Title of Signatory:

UNIVERSITY OF OF PITTSBURGH

By:  
Title of Signatory:

*Robert E. Ferrell*

UNIVERSITY OF MARYLAND, BALTIMORE

By:  
Title of Signatory:

James M. HAGBERG

Robert E. FERRELL

Alan SHULDINER

**PCT**  
**POWER OF ATTORNEY**

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**HAGBERG, James M.**

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☐ the International Preliminary Examining Authority only

in connection with the international application identified below:

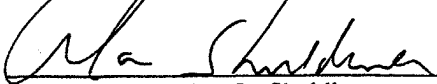
Title of the invention: **Genetic Markers Which Identify Individuals Who Improve Their Cholesterol Levels and Diabetes Status With Exercise**

Applicant's or agent's file reference: **F8172-9032**

International application number (if already available):

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Alan R. Shuldiner

Date: Feb. 22, 2000

IN THE UNITED STATES RECEIVING OFFICE  
INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

09/856470

IC18 Rec'd PCT/PTO 07 JUN 2001

HAND CARRY TO PCT  
ATTN: IPEA/US

In re the application of: University of Maryland, College Park, et al.

International Application Number: PCT/US99/27919

International Filing Date: 08 December 1999

For: GENETIC MARKERS WHICH IDENTIFY INDIVIDUALS WHO IMPROVE THEIR  
CHOLESTEROL LEVELS AND DIABETES STATUS WITH EXERCISE

**DEMAND FOR INTERNATIONAL PRELIMINARY EXAMINATION  
UNDER PCT ARTICLE 31**

Commissioner for Patents  
Box PCT  
Washington, D.C. 20231

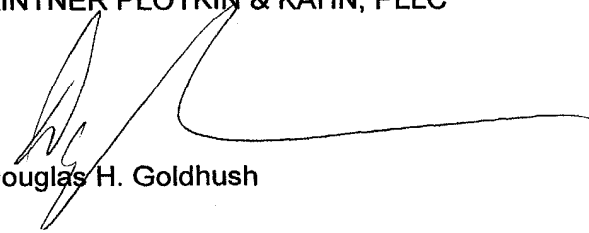
07 July 2000

Dear Sir:

Applicants respectfully request that the above-identified PCT International Application be the subject of international preliminary examination under Article 31 of the Patent Cooperation Treaty.

In the event additional fees are required, please charge counsel's deposit account no. 01-2300.

Respectfully submitted,  
ARENT FOX KINTNER PLOTKIN & KAHN, PLLC

  
Douglas H. Goldhush

DHG/arw

Enclosures: Demand for International Preliminary Examination (4 sheets)  
Fee Calculation Sheet (1 sheet)  
Check

Agent's File Ref. No. 108172-09032

# PCT

## POWER OF ATTORNEY

(for an international application filed under the Patent Cooperation Treaty)

(PCT Rule 90.4)

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UNIVERSITY OF MARYLAND, BALTIMORE  
UNIVERSITY OF PITTSBURGH  
HAGBERG, James M.  
FERRELL, Robert E.  
SHULDINER, Alan

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UNIVERSITY OF MARYLAND, COLLEGE PARK  
By: James M. Hagberg  
Title of Signatory: Acting Executive Director

UNIVERSITY OF OF PITTSBURGH  
By:  
Title of Signatory:

UNIVERSITY OF MARYLAND, BALTIMORE  
By:  
Title of Signatory:

James M. HAGBERG  
Robert E. FERRELL  
Alan SHULDINER

Date: \_\_\_\_\_

**PCT  
POWER OF ATTORNEY**

*(for several international applications filed under the Patent Cooperation Treaty)*

(PCT Rule 90.4)

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**UNIVERSITY OF MARYLAND, COLLEGE PARK  
UNIVERSITY OF MARYLAND, BALTIMORE  
UNIVERSITY OF PITTSBURGH  
SHULDINER, Alan  
FERRELL, Robert E  
HAGBERG, James M.**

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**David J. Ramsay, DM, D.Phil.  
President  
University of Maryland, Baltimore**

Date: 2.24.00

PCT

## POWER OF ATTORNEY

(for an international application filed under the Patent Cooperation Treaty)

(PCT Rule 90.4)

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UNIVERSITY OF MARYLAND, BALTIMORE  
UNIVERSITY OF PITTSBURGH  
HAGBERG, James M.  
FERRELL, Robert E.  
SHULDINER, Alan

RECEIVED MAR 22 2000

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By:  
Title of Signatory:

UNIVERSITY OF OF PITTSBURGH  
By: *James M. Hagberg*  
Title of Signatory:

*Exca Vice Chancellor*

UNIVERSITY OF MARYLAND, BALTIMORE  
By:  
Title of Signatory:

James M. HAGBERG  
Robert E. FERRELL  
Alan SHULDINER

TOTAL P.02

PCT

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UNIVERSITY OF MARYLAND, BALTIMORE  
By:  
Title of Signatory:

James M. HAGBERG  
Robert E. FERRELL  
Alan SHULDINER

TOTAL P.02



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TECHNOLOGY LIAISON

301 314 9871 P.02/02

PCT

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and to make or receive payments on behalf of the undersigned.

Signature of the applicant(s): (where there are several applicants, each of them must sign; next to each signature, indicate the name of the person signing and the capacity in which the person signs. If such capacity is not obvious from reading the request or this power):

  
Alan R. Shuldiner

Date: Feb. 22, 2000

Patent ☒ Trademark ☐ Docket No. 108172-09032  
Serial No PCT/US99/26019 Filed December 8, 1999  
Applicant(s) UNIVERSITY OF MARYLAND, et al  
Papers filed herewith on March 29, 2000  

<input type="checkbox"/> Fees \$ _____	<input type="checkbox"/> Assignment
<input type="checkbox"/> New Application	<input type="checkbox"/> Declaration
<input type="checkbox"/> Amendment	<input type="checkbox"/> Priority Document
<input type="checkbox"/> Notice of Appeal	<input type="checkbox"/> Req. for Ext. of Time
<input type="checkbox"/> IDS/PTO-1449	<input type="checkbox"/> Drawings
<input checked="" type="checkbox"/> Other <u>Response to Invitation to Correct Defects (1);</u>	
<u>PCT Powers of Attorney (6)</u>	

Hand Carry  
To PCT

Receipt is hereby acknowledged of the papers filed as indicated in connection with the above-identified case.

DHG:arw

COMMISSIONER OF PATENTS

09/856470

J018 Rec'd PCT/PTO 07 JUN 2001

IN THE INTERNATIONAL BUREAU OF WIPO

In re the application of: UNIVERSITY OF MARYLAND, COLLEGE PARK, et al.

International Application No: PCT/US99/27919

International Filing Date: 08 December 1999

For: Genetic Markers Which Identify Individuals Who Improve Their Cholesterol Levels and Diabetes Status With Exercise

REQUEST FOR CHANGE UNDER PCT RULE 92<sup>bis</sup>

The International Bureau of WIPO  
PCT Receiving Office Section  
34, chemin des Colombettes  
1211 Geneva 20, Switzerland

07 September 2000

Dear Sir:

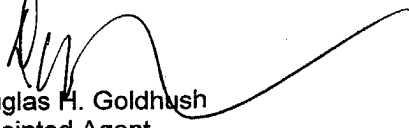
Applicants respectfully request that the agents address and telephone number in the above application be changed as indicated below and placed on record with the International Bureau of WIPO in accordance with PCT Rule 92bis:

Arent Fox Kintner Plotkin & Kahn, PLLC  
1050 Connecticut Avenue, NW, Suite 600  
Washington, D.C. 20036-5339 US

Telephone No. (202) 857-6000

It is respectfully requested that the International Bureau of WIPO acknowledge receipt of this request for change to the international application by issuance of form PCT/IB/306.

Respectfully submitted,

  
Douglas H. Goldhush  
Appointed Agent

Arent Fox Kintner Plotkin & Kahn, PLLC  
1050 Connecticut Avenue, NW, Suite 600  
Washington, D.C. 20036-5339 US  
Agent's File Reference No: 108172-09032

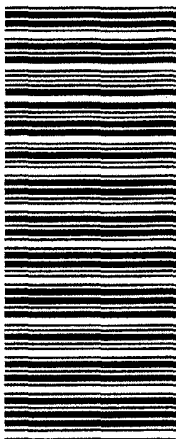
REORDER 757654776-0 QTY 300  
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1 From (Shipper)  
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Shipper's name Douglas H. Goldhush  
Address STE 500  
1050 CONNECTICUT AVE NW  
WASHINGTON DC

Zip code (required) 200365339 Phone/Fax/E-mail circle one (required) (202) 857-6264  
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